

Appendix Test Data

Report No.:	18220WC20263903	Test Sample No.:	1-2-2
Start Test Date:	2022.11.15	Finish Test Date:	2022.11.24
Test Engineer:	<i>Tony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	27.3C°	Relative Humidity:	47 %
Pressure:	1012 hPa		

Appendix A: DTS Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.120	2406.920	2417.040	≥0.5	PASS
		2437	10.040	2432.000	2442.040	≥0.5	PASS
		2462	10.120	2456.920	2467.040	≥0.5	PASS
11G	Ant1	2412	15.120	2404.440	2419.560	≥0.5	PASS
		2437	15.360	2429.200	2444.560	≥0.5	PASS
		2462	15.080	2454.400	2469.480	≥0.5	PASS
11N20	Ant1	2412	13.800	2404.480	2418.280	≥0.5	PASS
		2437	15.120	2429.400	2444.520	≥0.5	PASS
		2462	13.880	2455.640	2469.520	≥0.5	PASS
11N40	Ant1	2422	31.380	2404.420	2435.800	≥0.5	PASS
		2437	33.840	2420.680	2454.520	≥0.5	PASS
		2452	35.040	2434.480	2469.520	≥0.5	PASS



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437





11G_Ant1_2462



11N20_Ant1_2412





11N20_Ant1_2437



11N20_Ant1_2462





11N40_Ant1_2422



11N40_Ant1_2437





11N40_Ant1_2452



Appendix B: Occupied Channel Bandwidth

Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant1	2412	13.432	2405.2692	2418.7012
		2437	13.460	2430.2674	2443.7274
		2462	13.468	2455.2853	2468.7533
11G	Ant1	2412	16.827	2403.5606	2420.3876
		2437	16.960	2428.5025	2445.4625
		2462	16.968	2453.5198	2470.4878
11N20	Ant1	2412	17.911	2403.0476	2420.9586
		2437	17.929	2428.0328	2445.9618
		2462	18.004	2453.0264	2471.0304
11N40	Ant1	2422	35.982	2404.0284	2440.0104
		2437	36.091	2419.0139	2455.1049
		2452	36.022	2434.0493	2470.0713



Test Graphs

11B_Ant1_2412



11B_Ant1_2437



11B_Ant1_2462

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11G_Ant1_2412



11G_Ant1_2437

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11N20_Ant1_2437



11N20_Ant1_2462

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11N40_Ant1_2422



11N40_Ant1_2437



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Appendix C: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Peak Power[dBm]	Conducted Limit[dBm]
11B	Ant1	2412	18.70	≤30.00
		2437	18.59	≤30.00
		2462	18.66	≤30.00
11G	Ant1	2412	22.76	≤30.00
		2437	22.66	≤30.00
		2462	22.67	≤30.00
11N20	Ant1	2412	22.62	≤30.00
		2437	22.59	≤30.00
		2462	22.56	≤30.00
11N40	Ant1	2422	18.85	≤30.00
		2437	20.48	≤30.00
		2452	18.96	≤30.00



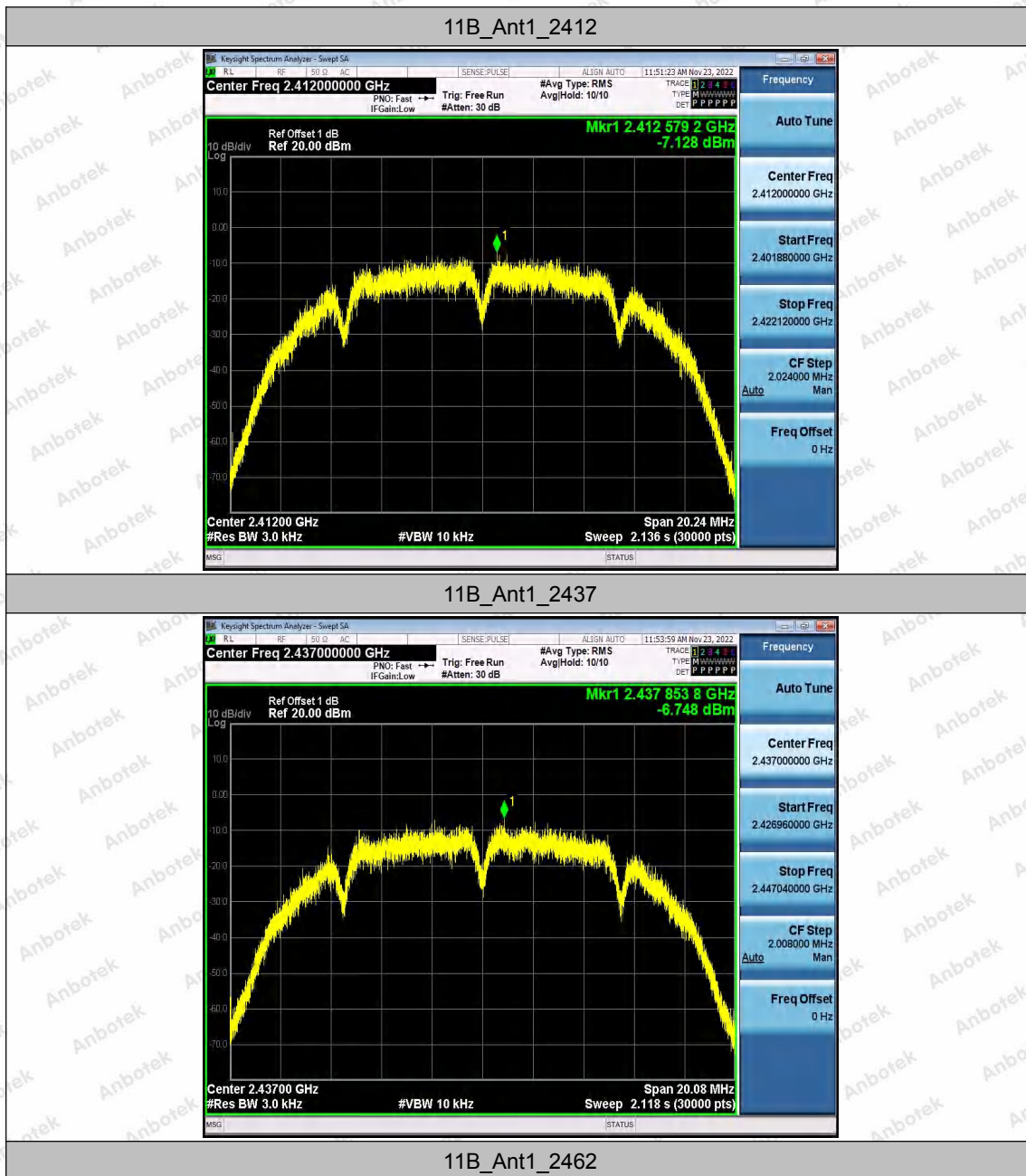
Appendix D: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-7.13	≤8.00	PASS
		2437	-6.75	≤8.00	PASS
		2462	-7.4	≤8.00	PASS
11G	Ant1	2412	-7.39	≤8.00	PASS
		2437	-8.76	≤8.00	PASS
		2462	-8.69	≤8.00	PASS
11N20	Ant1	2412	-8.39	≤8.00	PASS
		2437	-9.14	≤8.00	PASS
		2462	-7.87	≤8.00	PASS
11N40	Ant1	2422	-13.2	≤8.00	PASS
		2437	-12.42	≤8.00	PASS
		2452	-13.84	≤8.00	PASS



Test Graphs



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11G_Ant1_2412



11G_Ant1_2437

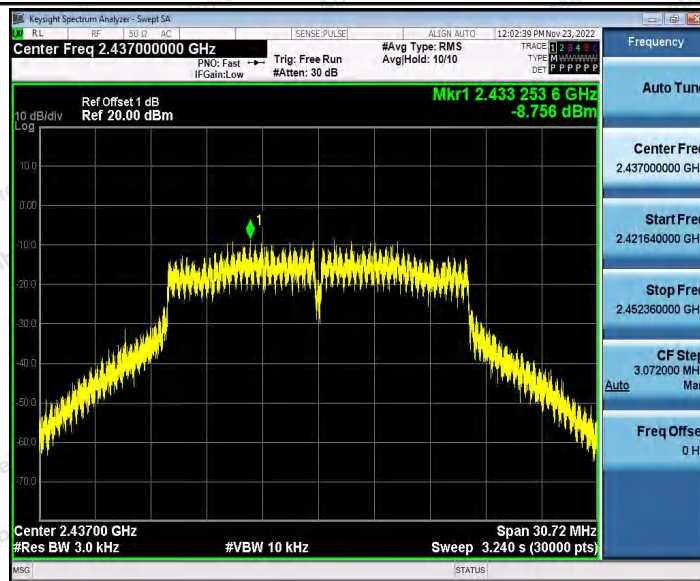
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11G_Ant1_2462



11N20_Ant1_2412

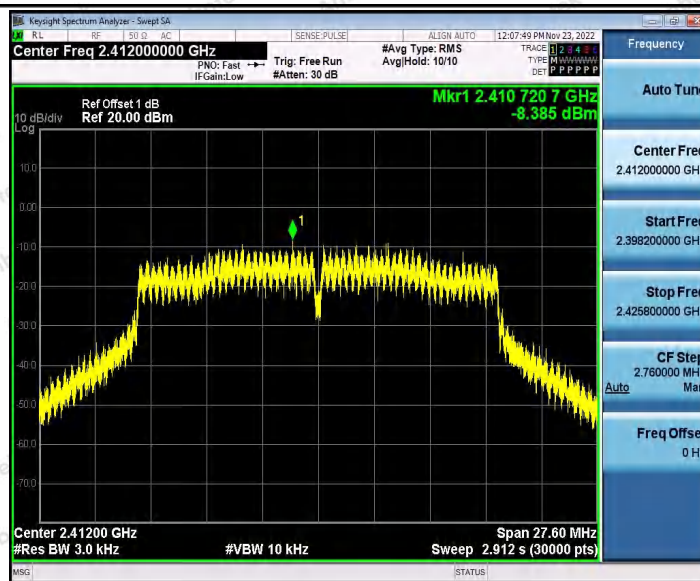
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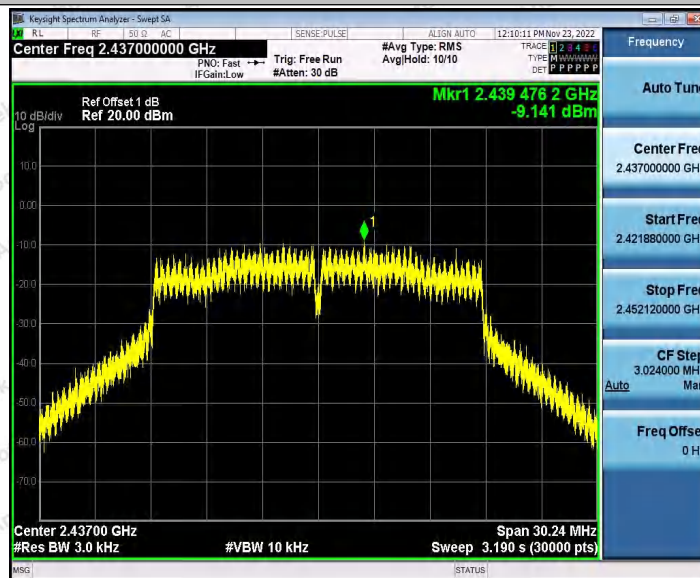


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11N20_Ant1_2437



11N20_Ant1_2462

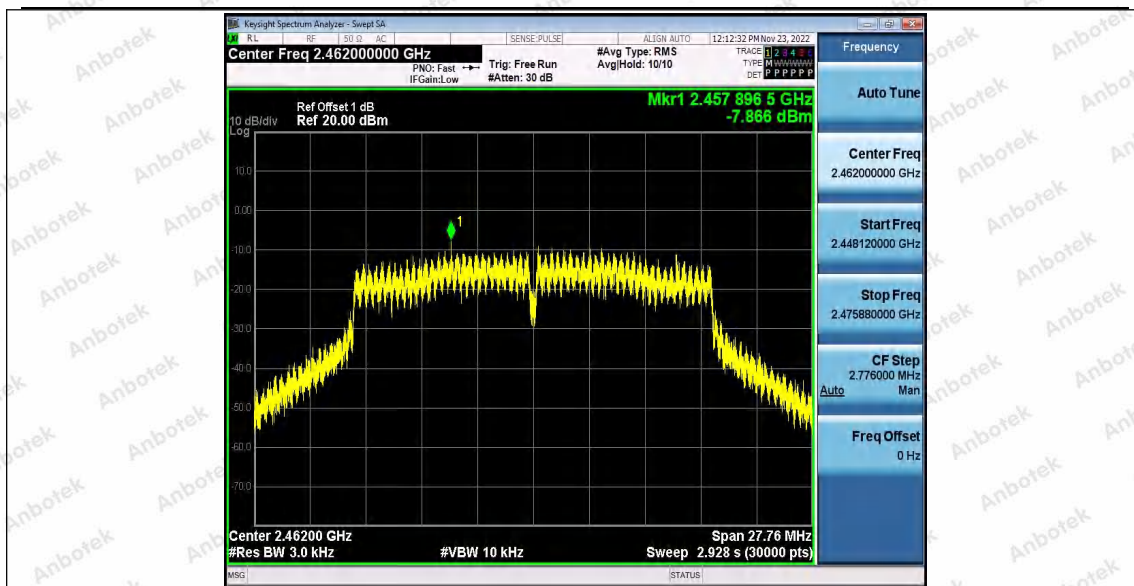
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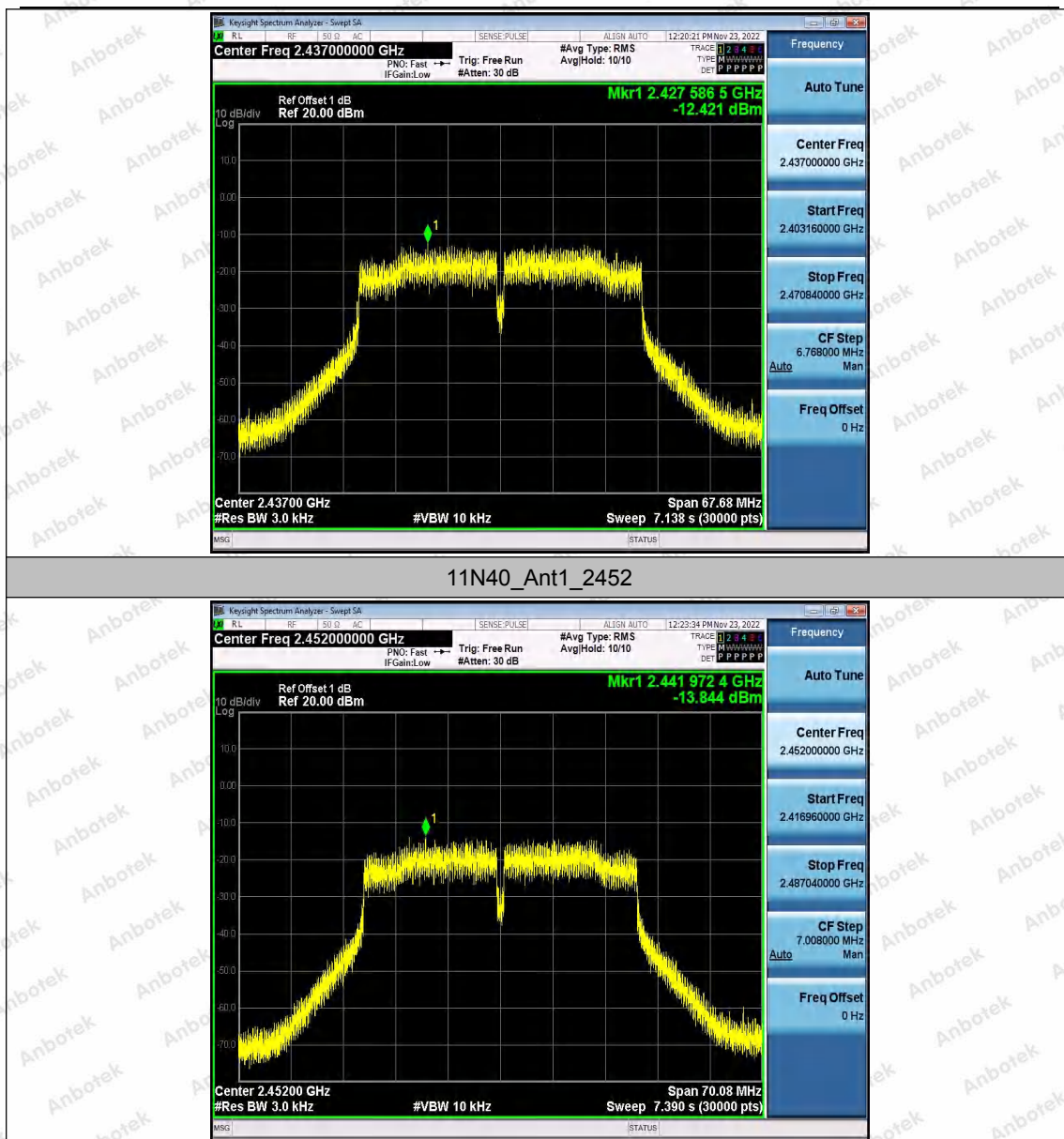
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Appendix E: Band edge measurements

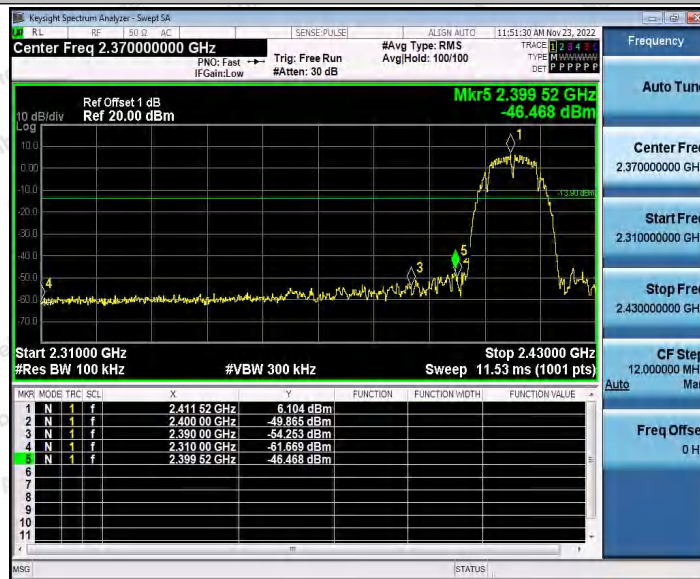
Test Result

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.10	-46.47	≤-13.9	PASS
		High	2462	6.28	-51.06	≤-13.72	PASS
11G	Ant1	Low	2412	3.76	-24.13	≤-16.24	PASS
		High	2462	5.36	-51.08	≤-14.64	PASS
11N20	Ant1	Low	2412	5.57	-23.88	≤-14.44	PASS
		High	2462	5.91	-48.37	≤-14.09	PASS
11N40	Ant1	Low	2422	0.44	-30	≤-19.56	PASS
		High	2452	0.72	-41.72	≤-19.28	PASS



Test Graphs

11B_Ant1_Low_2412



11B_Ant1_High_2462



11G_Ant1_Low_2412

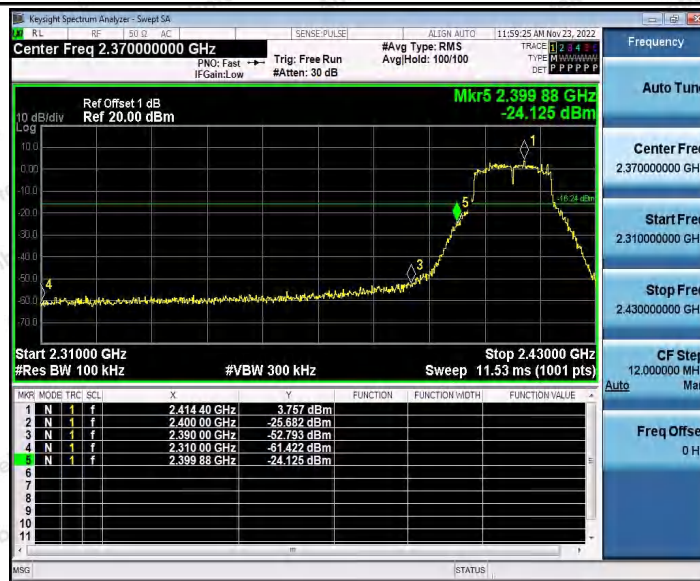
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11G_Ant1_High_2462



11N20_Ant1_Low_2412

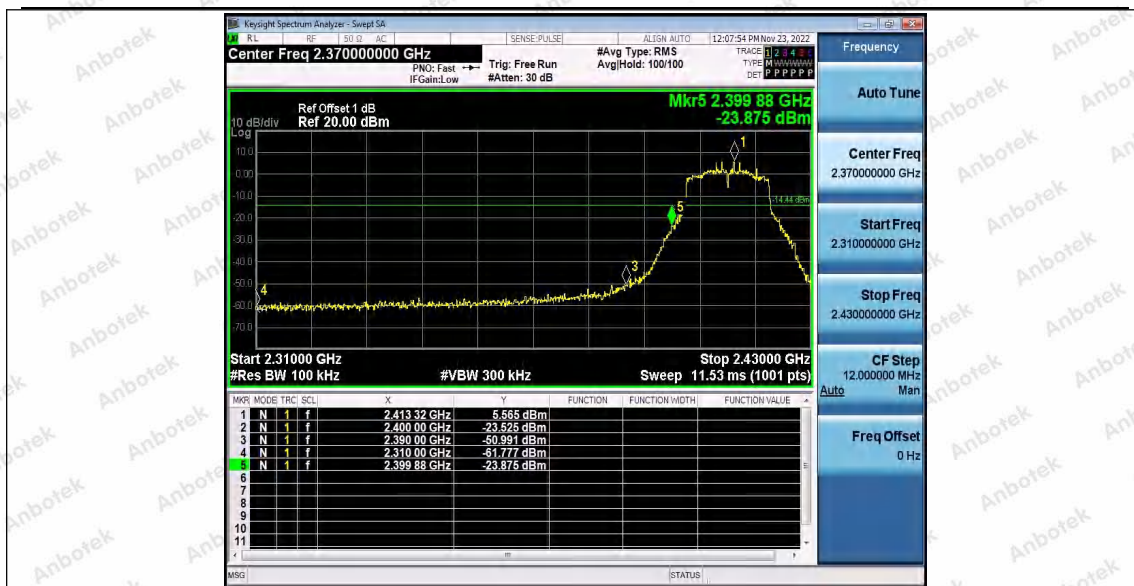
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11N20_Ant1_High_2462



11N40_Ant1_Low_2422





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Appendix F: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	5.37	5.37	---	PASS
			30~1000	5.37	-68.78	≤-14.63	PASS
			1000~26500	5.37	-51.3	≤-14.63	PASS
		2437	Reference	4.85	4.85	---	PASS
			30~1000	4.85	-68.5	≤-15.15	PASS
			1000~26500	4.85	-52.86	≤-15.15	PASS
		2462	Reference	4.86	4.86	---	PASS
			30~1000	4.86	-68.71	≤-15.14	PASS
			1000~26500	4.86	-52.76	≤-15.14	PASS
11G	Ant1	2412	Reference	1.79	1.79	---	PASS
			30~1000	1.79	-68.28	≤-18.21	PASS
			1000~26500	1.79	-53.14	≤-18.21	PASS
		2437	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-68.65	≤-18.55	PASS
			1000~26500	1.45	-53.29	≤-18.55	PASS
		2462	Reference	2.02	2.02	---	PASS
			30~1000	2.02	-68.42	≤-17.98	PASS
			1000~26500	2.02	-53.39	≤-17.98	PASS
11N20	Ant1	2412	Reference	3.67	3.67	---	PASS
			30~1000	3.67	-68.98	≤-16.33	PASS
			1000~26500	3.67	-53.24	≤-16.33	PASS
		2437	Reference	2.91	2.91	---	PASS
			30~1000	2.91	-68.96	≤-17.09	PASS
			1000~26500	2.91	-52.94	≤-17.09	PASS
		2462	Reference	3.39	3.39	---	PASS
			30~1000	3.39	-68.67	≤-16.61	PASS
			1000~26500	3.39	-53.35	≤-16.61	PASS
11N40	Ant1	2422	Reference	-0.58	-0.58	---	PASS
			30~1000	-0.58	-68.44	≤-20.58	PASS
			1000~26500	-0.58	-52.88	≤-20.58	PASS
		2437	Reference	0.82	0.82	---	PASS
			30~1000	0.82	-68.97	≤-19.18	PASS
			1000~26500	0.82	-53.45	≤-19.18	PASS
		2452	Reference	-0.45	-0.45	---	PASS
			30~1000	-0.45	-68.99	≤-20.45	PASS
			1000~26500	-0.45	-52.7	≤-20.45	PASS

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Test Graphs

11B_Ant1_2412_0~Reference



11B_Ant1_2412_30~1000



11B_Ant1_2412_1000~26500

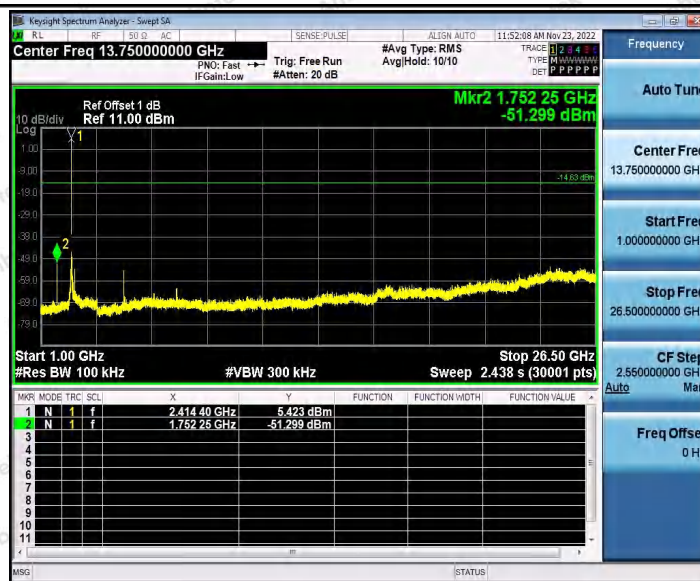
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11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000

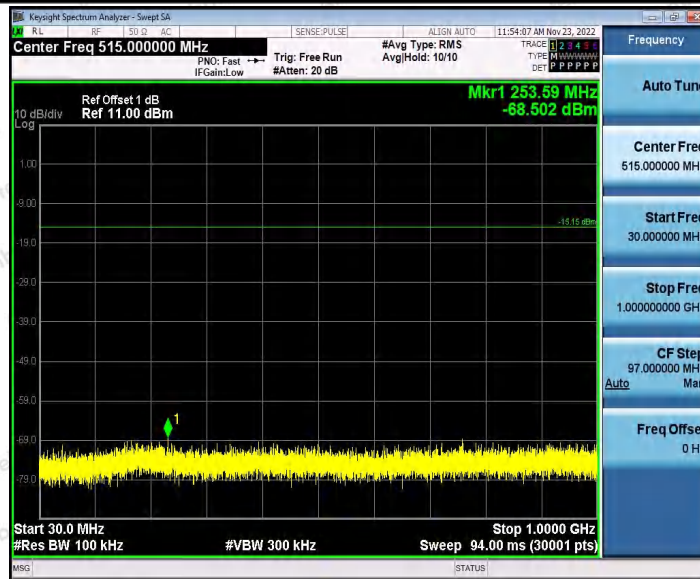
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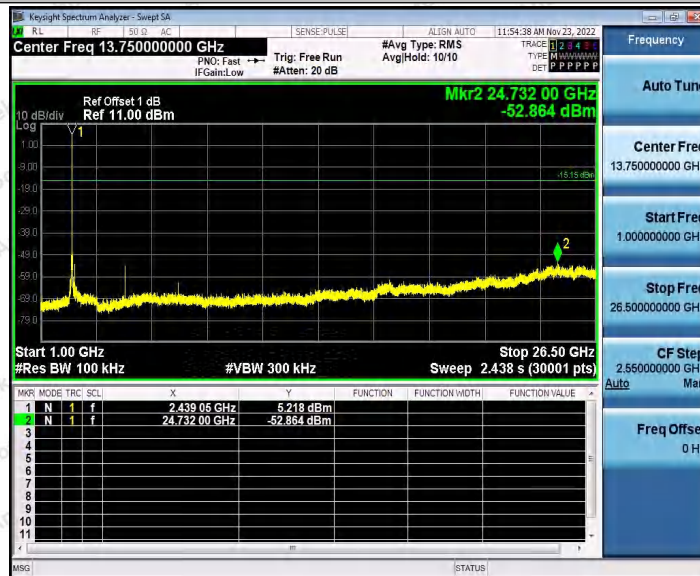


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11B_Ant1_2437_1000~26500



11B_Ant1_2462_0~Reference

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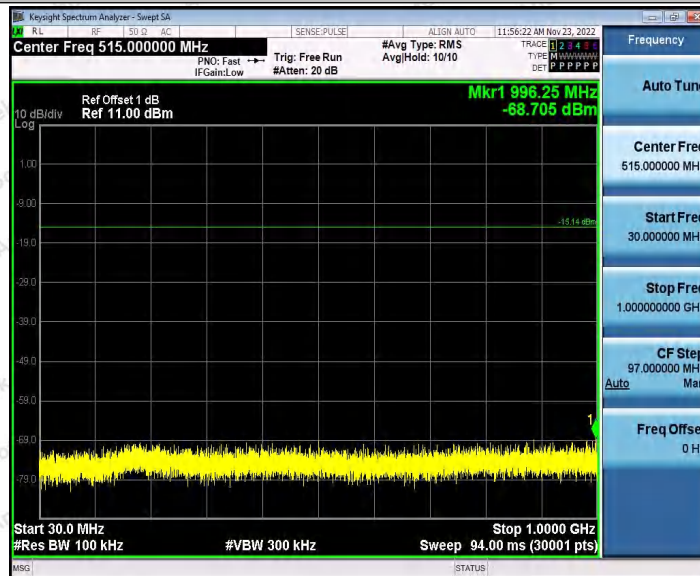


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11B_Ant1_2462_30~1000



11B_Ant1_2462_1000~26500

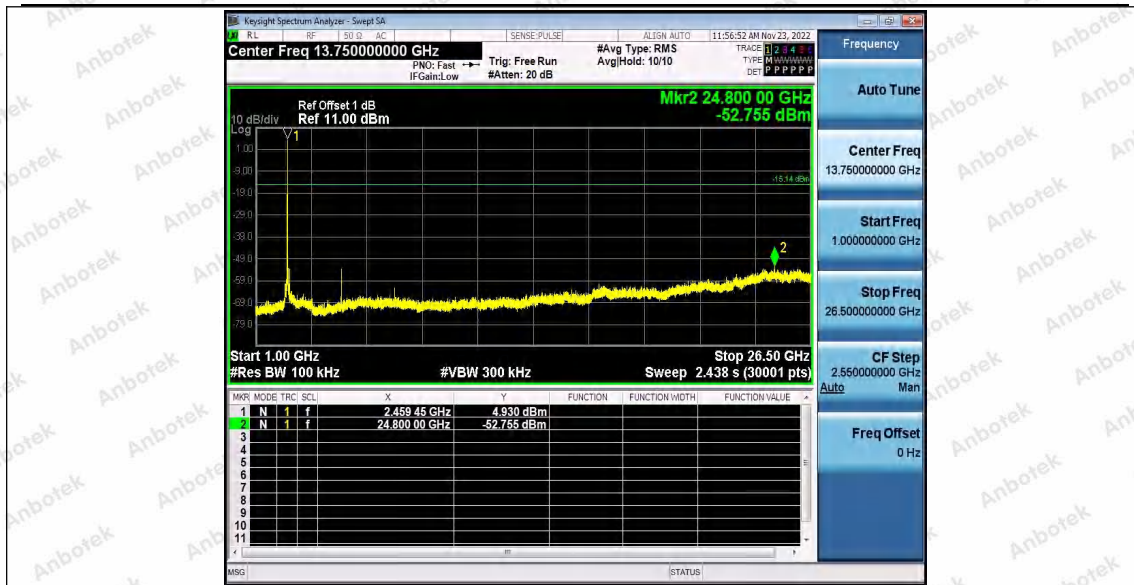
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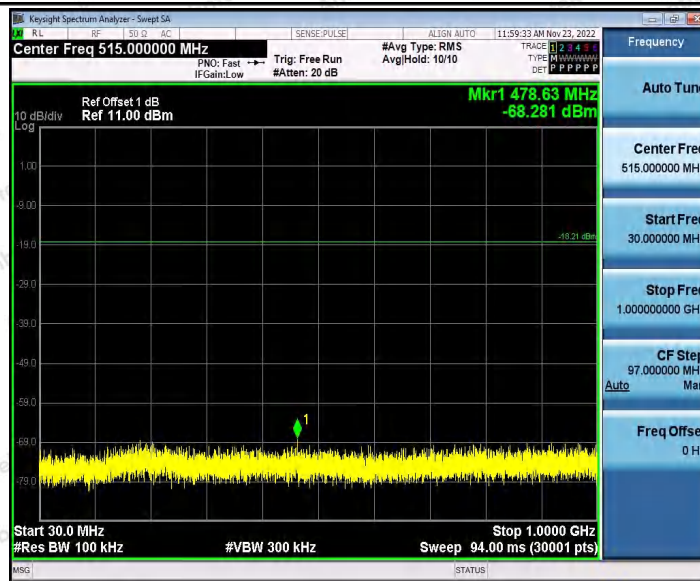


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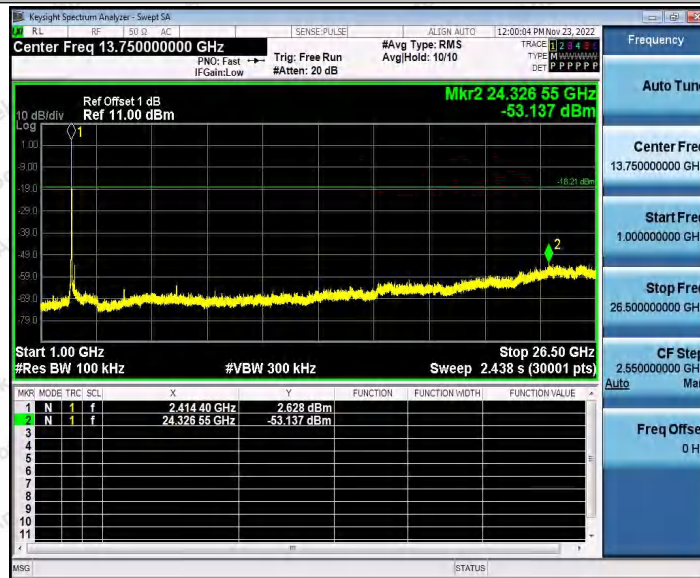


11G_Ant1_2412_30~1000





11G_Ant1_2412_1000~26500



11G_Ant1_2437_0~Reference

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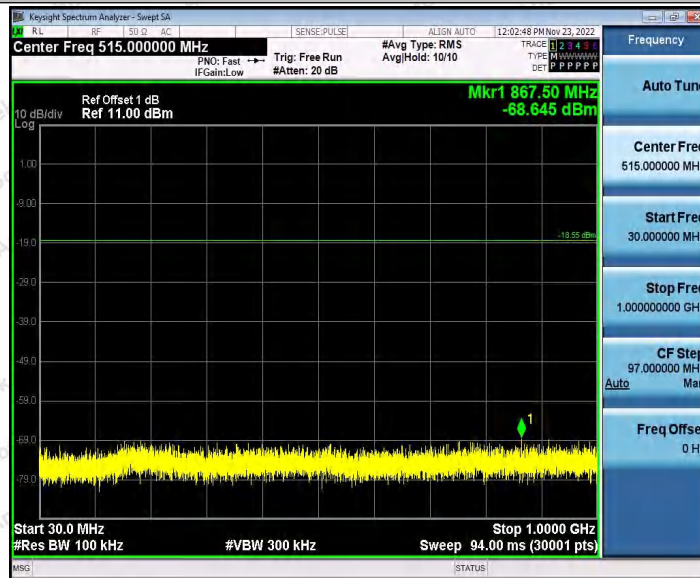


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11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500

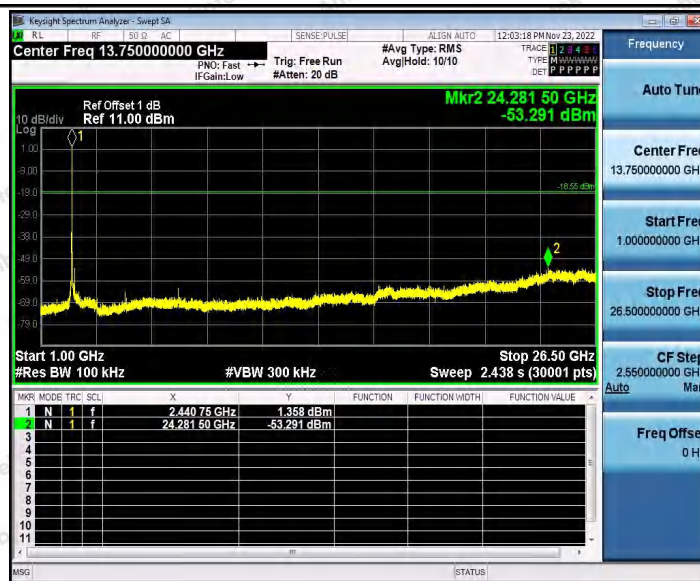
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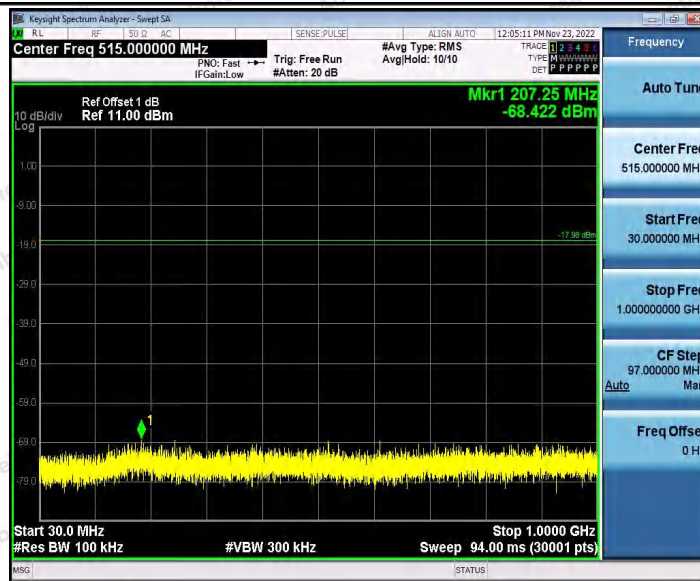


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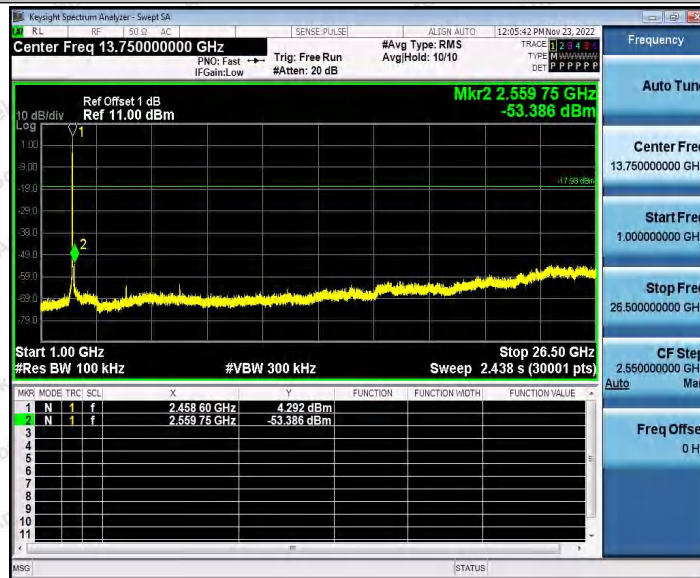


11G_Ant1_2462_30~1000





11G_Ant1_2462_1000~26500



11N20_Ant1_2412_0~Reference

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11N20_Ant1_2412_30~1000



11N20_Ant1_2412_1000~26500

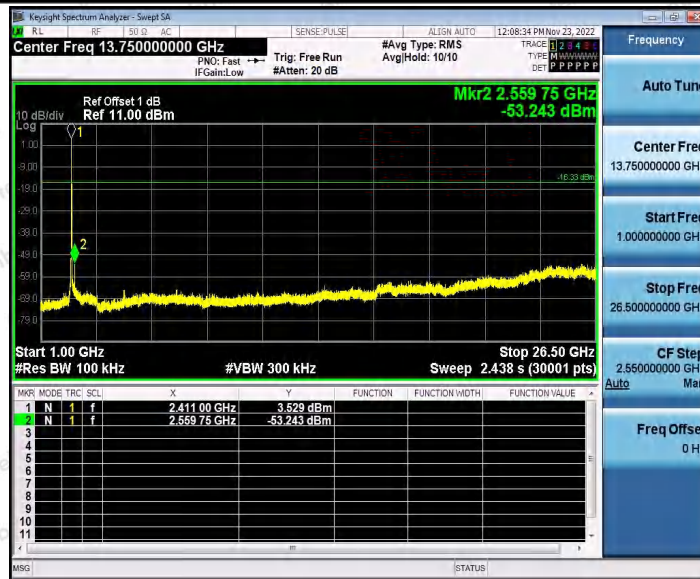
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11N20_Ant1_2437_0~Reference



11N20_Ant1_2437_30~1000

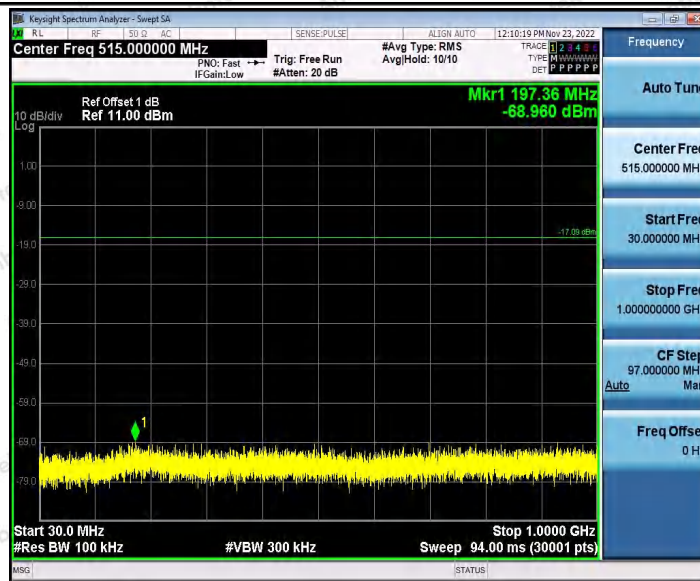
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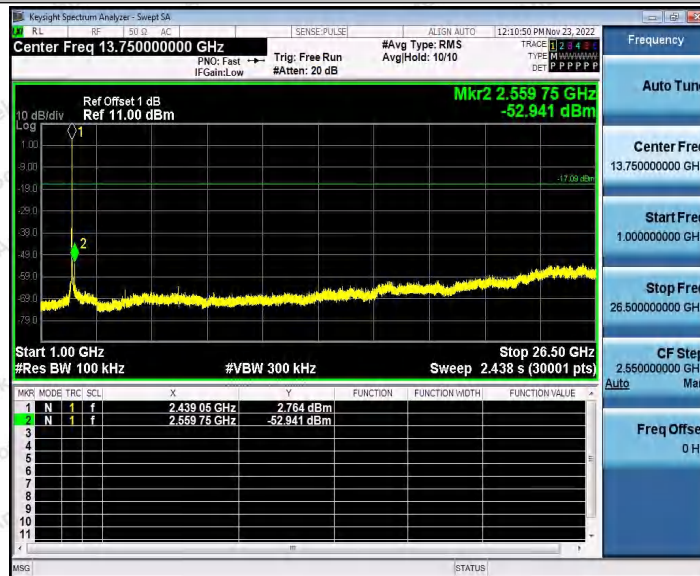


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11N20_Ant1_2437_1000~26500

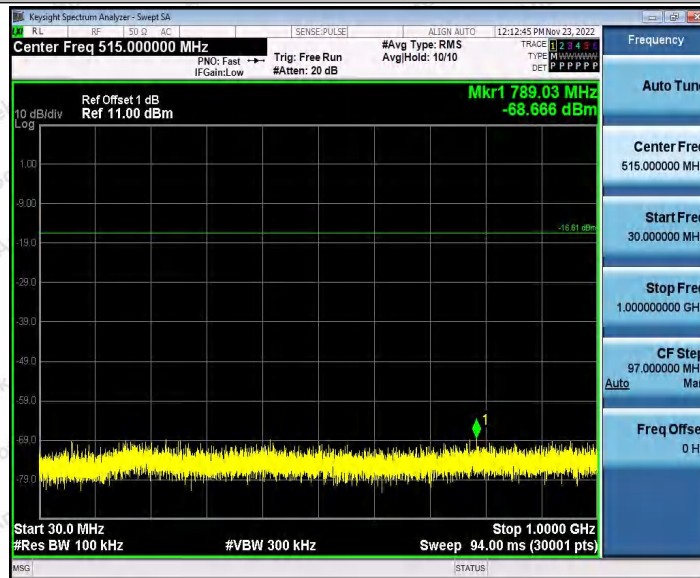


11N20_Ant1_2462_0~Reference





11N20_Ant1_2462_30~1000



11N20_Ant1_2462_1000~26500

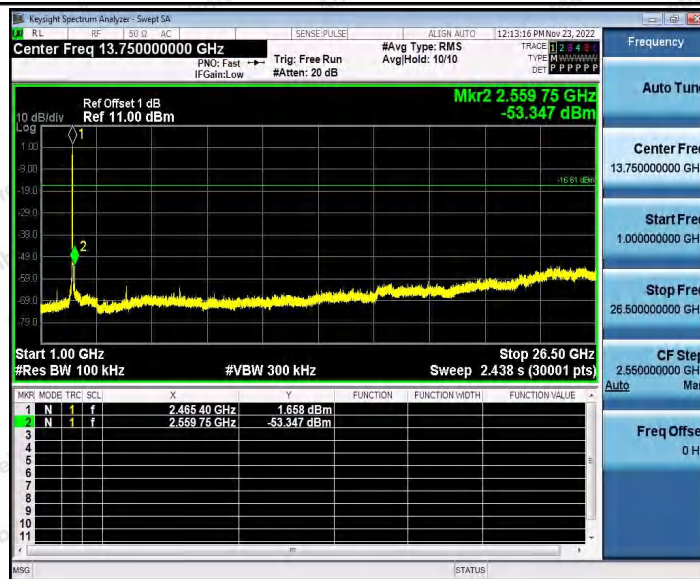
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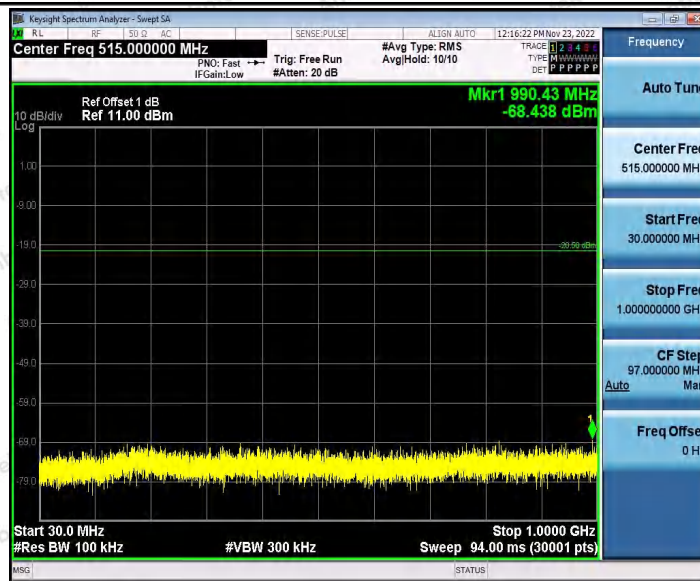


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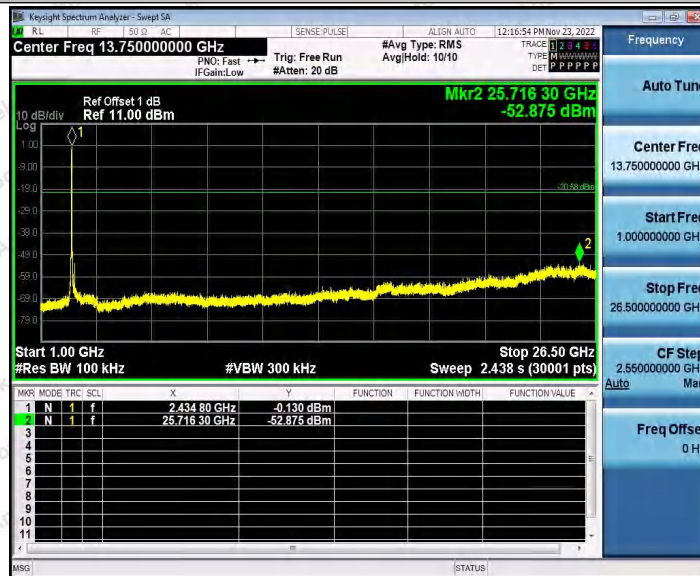


11N40_Ant1_2422_30~1000





11N40_Ant1_2422_1000~26500



11N40_Ant1_2437_0~Reference

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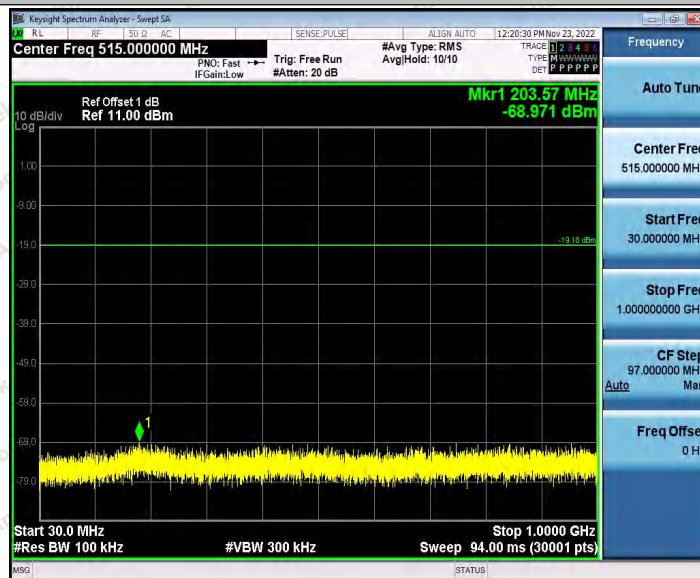


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11N40_Ant1_2437_30~1000



11N40_Ant1_2437_1000~26500

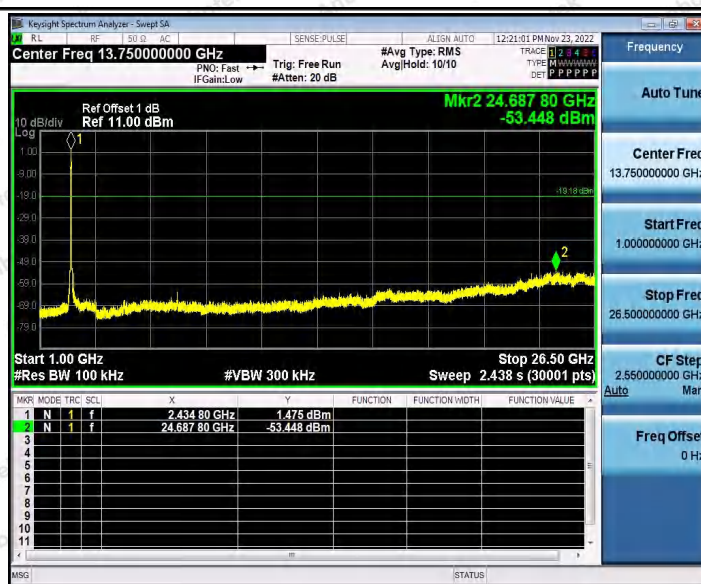
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11N40 Ant1 2452 0~Reference



11N40 Ant1 2452 30~1000

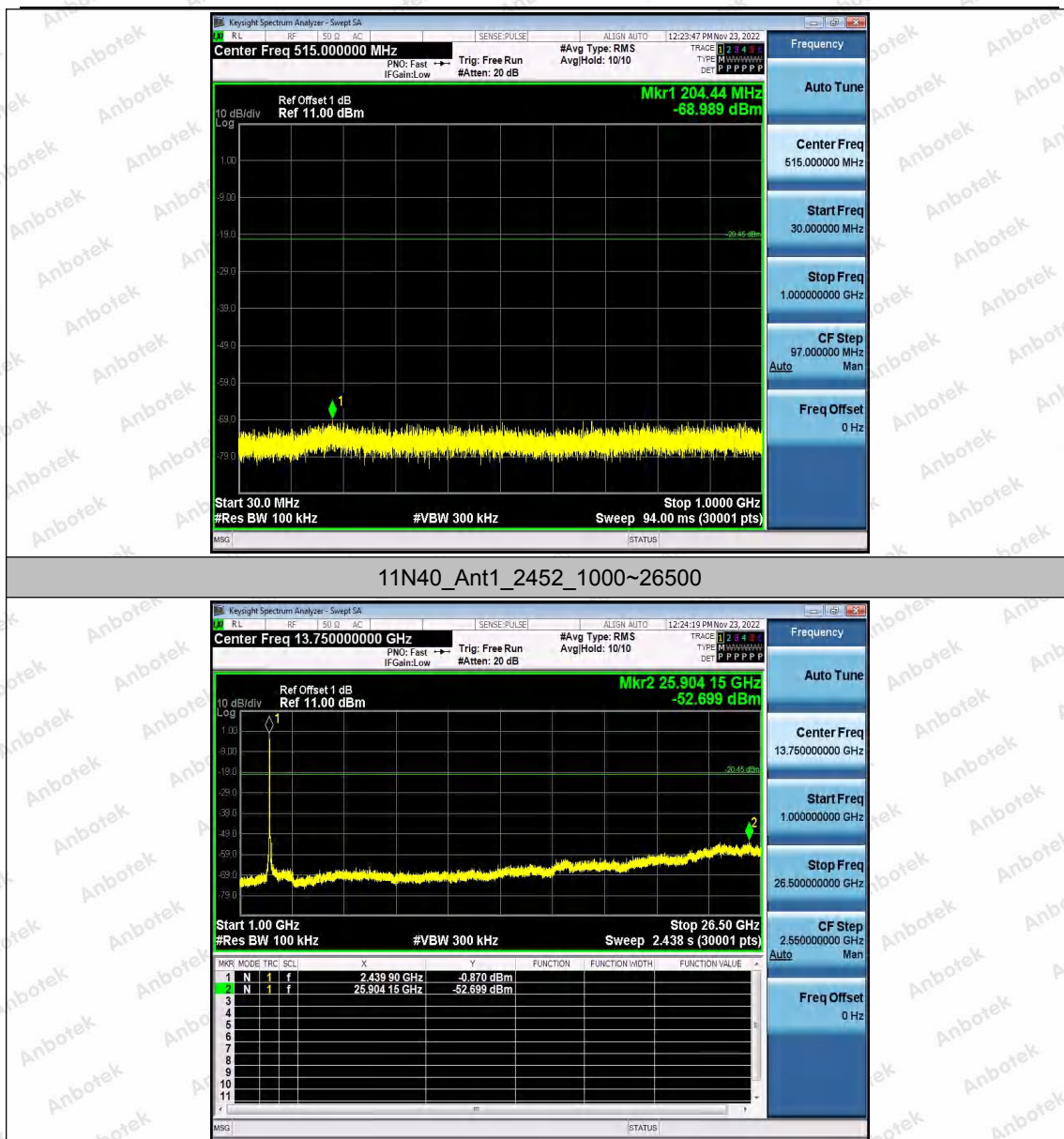
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Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
Tel: (86) 0755-26066440 Fax: (86) 0755-26014772 Email: service@anbotek.com



Hotline
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.
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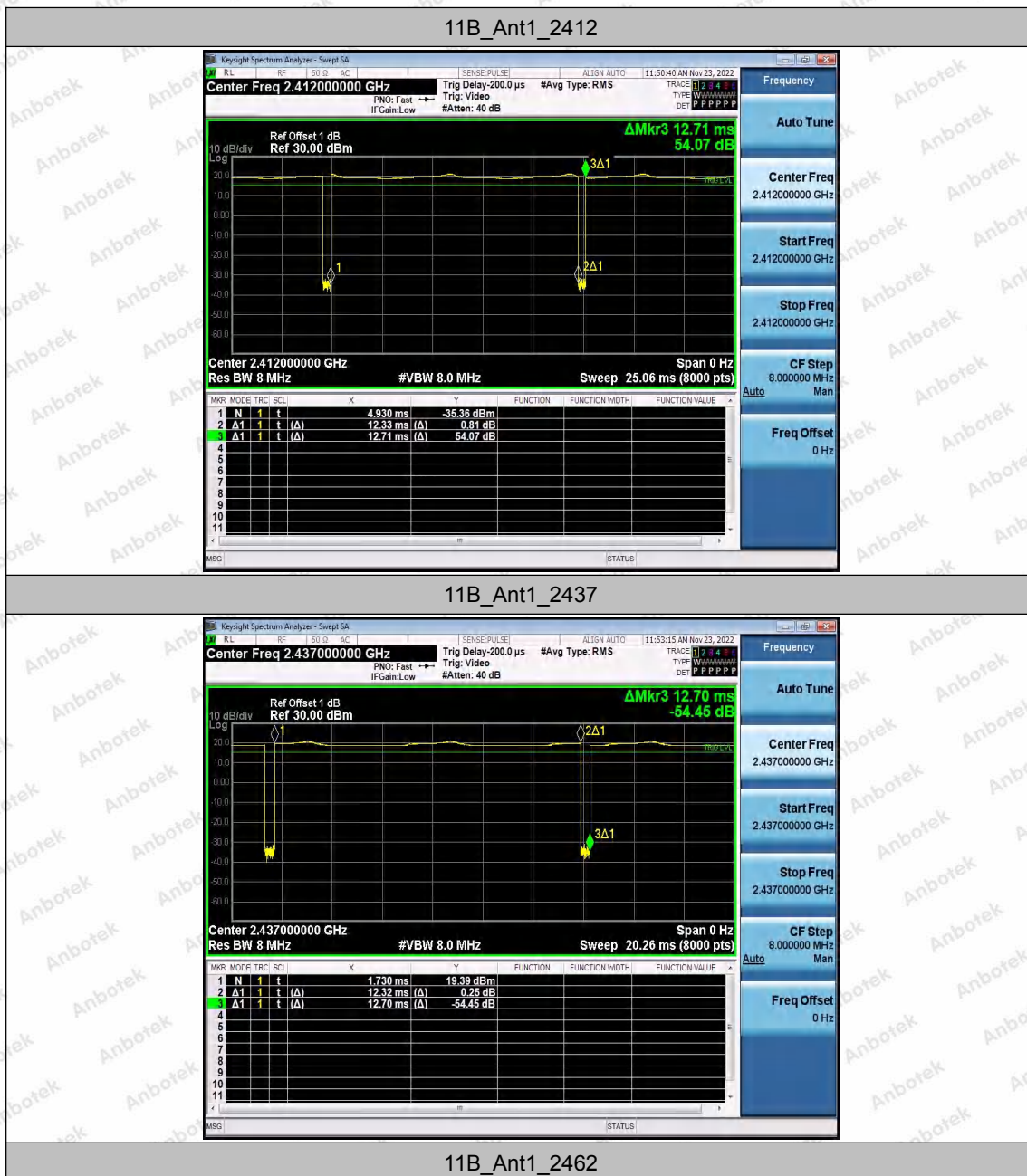
Appendix G: Duty Cycle

Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Factor
11B	Ant1	2412	12.33	12.71	97.01	0.13
		2437	12.32	12.70	97.01	0.13
		2462	12.32	12.70	97.01	0.13
11G	Ant1	2412	2.04	2.11	96.68	0.15
		2437	2.05	2.12	96.70	0.15
		2462	2.05	2.12	96.70	0.15
11N20	Ant1	2412	1.91	1.98	96.46	0.16
		2437	1.91	1.97	96.95	0.13
		2462	1.91	1.97	96.95	0.13
11N40	Ant1	2422	0.94	0.98	95.92	0.18
		2437	0.94	0.98	95.92	0.18
		2452	0.93	0.97	95.88	0.18



Test Graphs



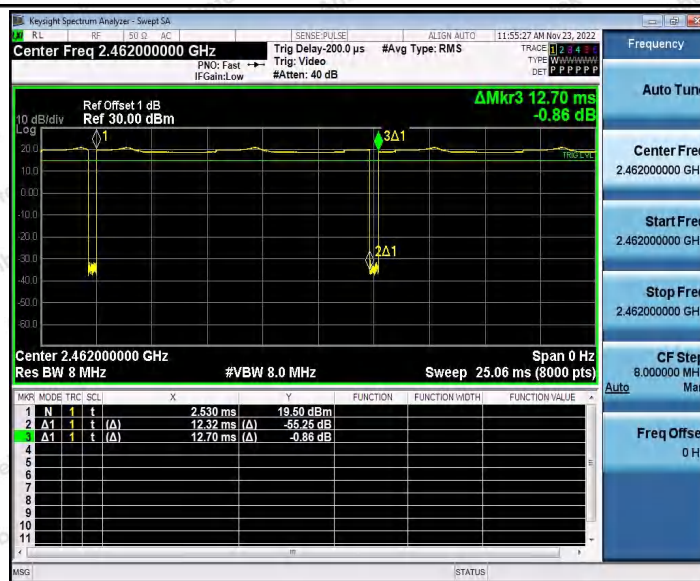
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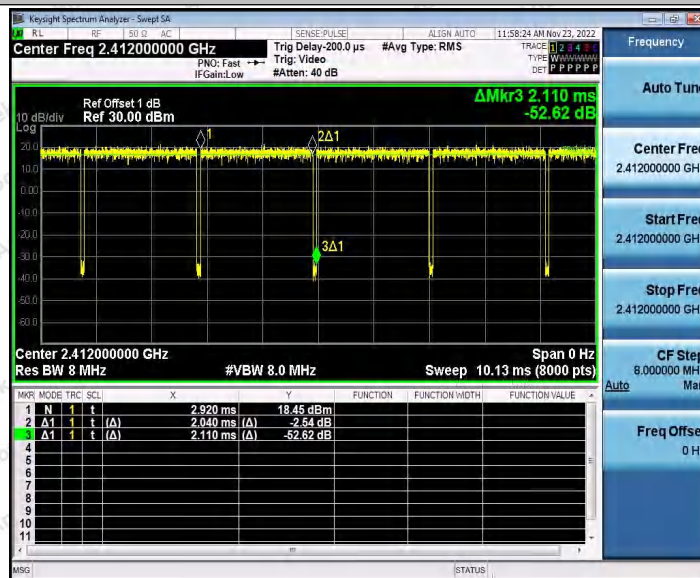


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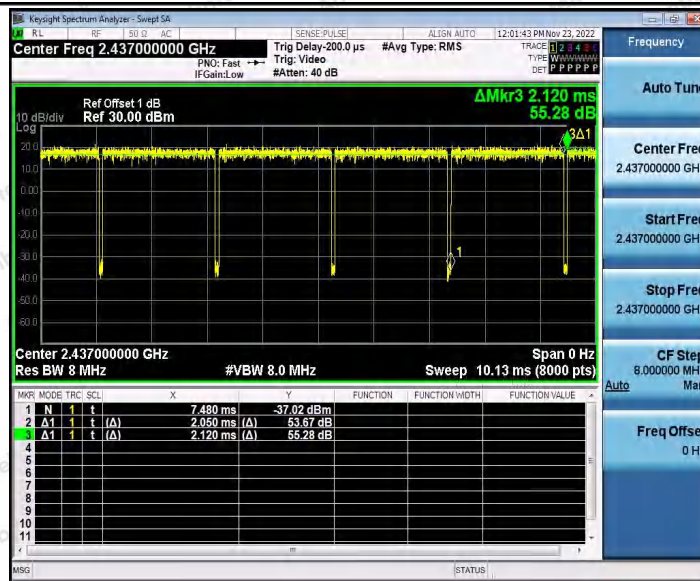


11G_Ant1_2412

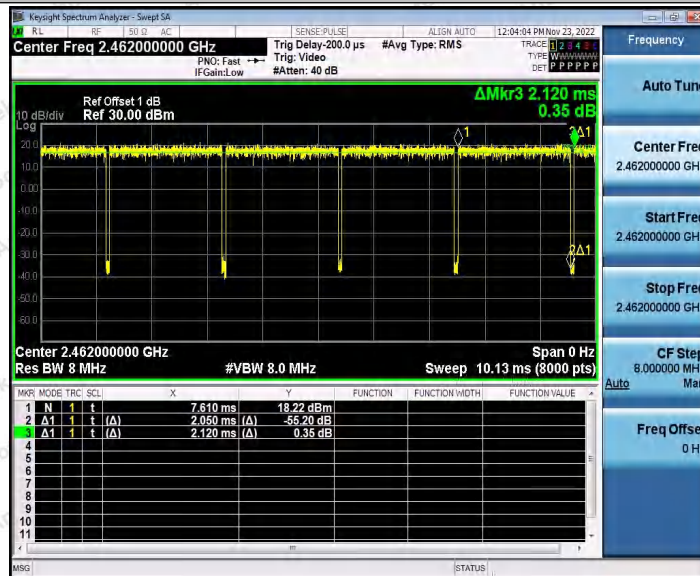


11G_Ant1_2437



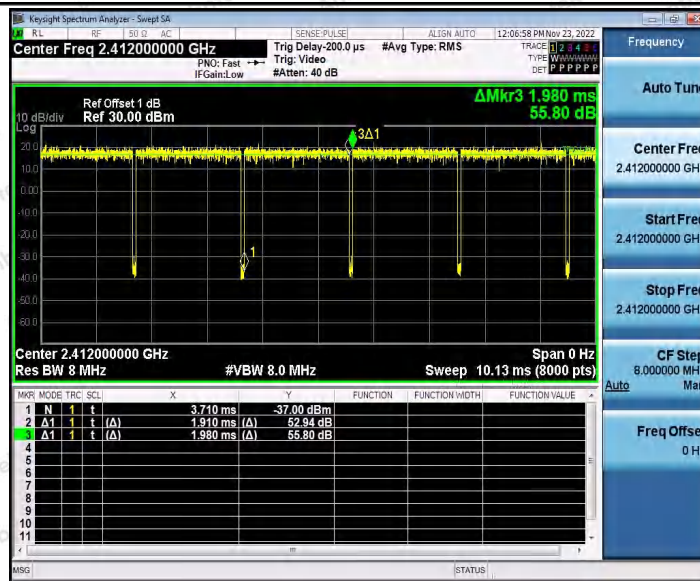


11G_Ant1_2462

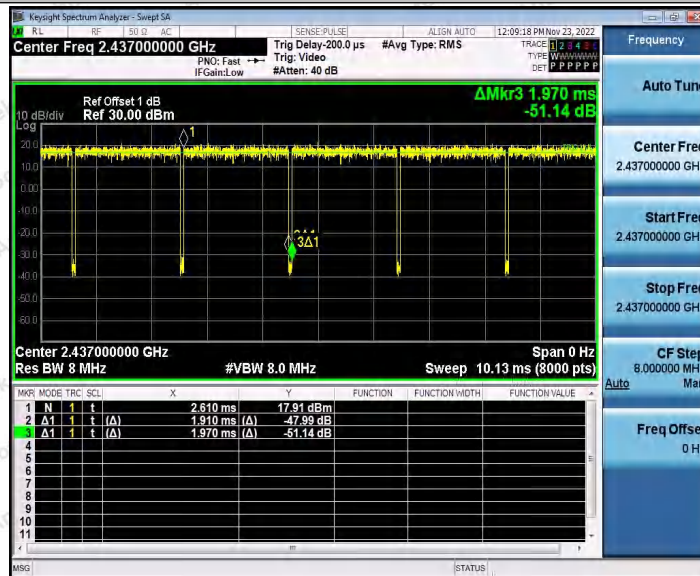


11N20_Ant1_2412





11N20_Ant1_2437



11N20_Ant1_2462

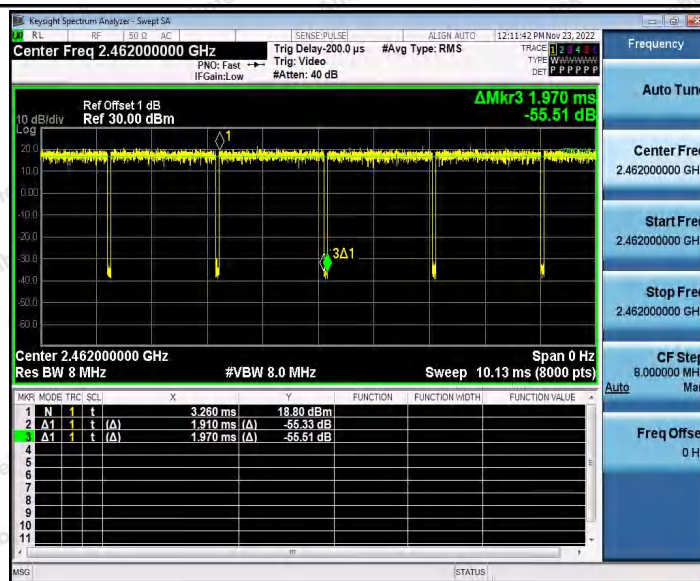
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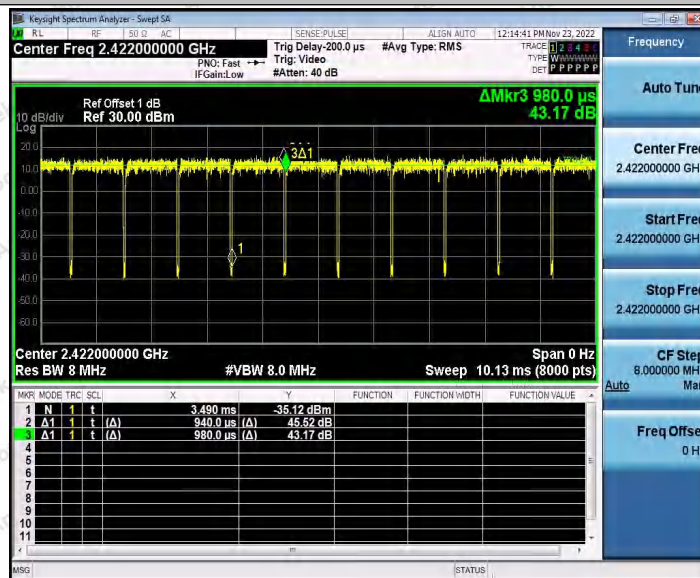


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11N40_Ant1_2422



11N40_Ant1_2437

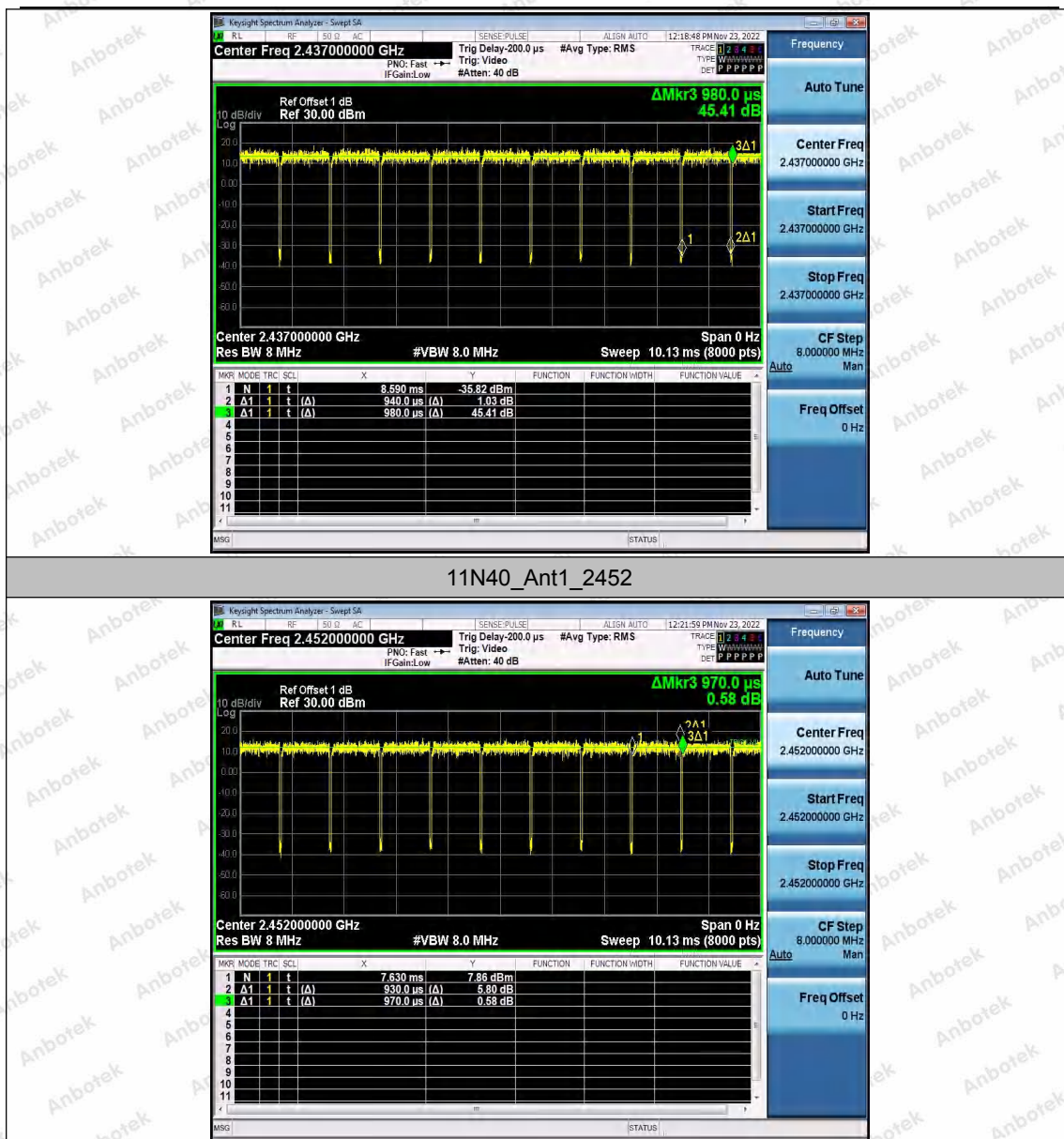
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